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1989
Groundwater sampling results, Livingston Rail Yard, Livingston, Montana

GROUND WATER SAMPLING RESULTS
LIVINGSTON RAIL YARD
LIVINGSTON, MONTANA

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GROUND WATER SAMPLING RESULTS
LIVINGSTON RAIL YARD
LIVINGSTON, MONTANA

August 1989

Submitted to:

Montana Department of Health
and Environmental Sciences
Cogswell Building
Helena, Montana 59807

Submitted by:

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October 23, 1989

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1.0 INTRODUCTION

Envirocon, Inc., representing Burlington Northern Railroad, completed the second quarterly ground water sampling round at the Livingston rail yard in Livingston, Montana during September 1-6, 1989. A total of thirty-eight water samples were taken from thirty wells. As shown on Table 1.0, this includes samples from twenty-four monitoring wells, five Livingston municipal water wells, and the Livingston POTW well. Figure 1.0 shows the locations of these wells. Five samples were trip blanks and three were field duplicates. All wells were probed prior to sampling to determine water levels and the presence and thickness of any free product.

All water samples were analyzed for volatile organic compounds by EPA method 524.2 and total petroleum hydrocarbons by EPA method 418.1 by Energy Laboratories, Inc. (ELI) in Billings, Montana. The sample from well L-87-1 was analyzed for dissolved metals instead of total petroleum hydrocarbons. This sample was taken a week earlier than the August quarterly round as a demonstration for a hydrogeochemical consultant contracted to review Envirocon's sampling procedure. Tables 2.0 and 3.0 summarize the results of all August sample analyses. The laboratory analyses are compiled in Appendix A.

2.0 SAMPLE RESULTS

This section presents sample results from the monitoring well network and results of samples from the Livingston municipal water wells.

2.1 RESULTS FROM THE MONITORING WELL NETWORK

2.1.1 Volatile Organic Compounds

The predominant volatile organic compounds (VOC's) detected in samples from the monitoring well network were tetrachloroethene (PCE), trichloroethene (TCE), and cis-1,2-dichloroethene (DCE). As shown in Table 2.0, samples from monitoring wells located in the center of the solvent plume near the MRL shops (L-87-5 and L-88-12) showed the most consistent concentrations of chlorinated solvents between May and August, 1989. Samples from monitoring wells located closer to the boundaries of the solvent plume (7, LS-11, and L-87-8) reveal much greater concentration changes over this period. Section 3.0 presents an interpretation of these results.

As shown in Table 3.0, samples from wells L-87-7, L-88-10, L-88-13, and LS-11 showed detectable concentrations of VOC's other than PCE, TCE, and DCE. The sources of these compounds are interpreted to be the Waste Water Treatment Plant (WWTP) sump, the cinder pile lagoon, and the API separator and overflow pond. An interpretation of these test results is also presented in Section 3.0.

TABLE 1.0

CORRELATION OF WELL AND SAMLE NUMBERS
AUG 89

SAMPLE NUMBER	WELL NUMBER	SAMPLE METHOD*	SAMPLE DATE
140101-065	L-87-1	DED	8/24/89
140101-066	TRIP BLANK	N/A	8/24/89
140101-067	#6	DED	9/1/89
140101-067	#6 DUPLICATE	DED	9/1/89
140101-068	L-88-9	DED	9/1/89
140101-069	L-88-11	DED	9/1/89
140101-070	LS-7	DED	9/1/89
140101-071	L-87-4	DED	9/1/89
140101-072	L-87-7	NON-DED	9/1/89
140101-073	L-87-8	DED	9/1/89
140101-074	L-88-13	DED	9/1/89
140101-075	L-88-13 DUPLICATE	DED	9/1/89
140101-076	#7	DED	9/1/89
140101-077	LS-11	DED	9/1/89
140101-078	TRIP BLANK	N/A	9/1/89
140101-079	LS-8	DED	9/2/89
140101-080	L-88-10	DED	9/2/89
140101-081	#8	DED	9/2/89
140101-082	L-87-3	DED	9/2/89
140101-083	L-88-12	DED	9/2/89
140101-084	L-87-5	DED	9/2/89
140101-085	#11	NON-DED	9/2/89
140101-086	#1	NON-DED	9/2/89
140101-087	#1 DUPLICATE	NON-DED	9/2/89
140101-088	#2	NON-DED	9/2/89
140101-089	TRIP BLANK	N/A	9/2/89
140101-090	LS-6	NON-DED	9/5/89
140101-091	#4	NON-DED	9/5/89
140101-092	#3	NON-DED	9/5/89
140101-093	#3 DUPLICATE	NON-DED	9/3/89
140101-094	TRIP BLANK	N/A	9/5/89
140101-095	Q ST	TAP	9/6/89
140101-096	L ST	TAP	9/6/89
140101-097	L ST DUPLICATE	TAP	9/6/89
140101-098	TRIP BLANK	N/A	9/6/89
140101-099	D ST	TAP	9/6/89
140101-100	CLARENCE ST	TAP	9/6/89
140101-101	WERNER ST	TAP	9/6/89
140101-102	#5	NON-DED	9/6/89
140101-103	POTW	TAP	9/6/89

*DED --- dedicated sampling pump
NON-DED --- non dedicated sampling pump
N/A --- not applicable

TABLE 2.0

COMPARISON OF MONTHLY ANALYTICAL RESULTS
1989

WELL NO.	PCE (ug/l)				TCE (ug/l)				DCE* (ug/l)				TPH (mg/l)	
	MAY	JUNE	JULY	AUG	MAY	JUNE	JULY	AUG	MAY	JUNE	JULY	AUG	MAY	AUG
1			0.66	**0.62**			<0.5	**<0.5**			<1.0	**<1.0**		<0.1
2			0.7	**1.3**			<0.5	**<0.5**			<1.0	**<1.0**		<0.1
3	0.69			**0.74**	<0.5			**<0.5**	<1.0	<0.5		**<1.0**	0.7	<0.1
4				**<0.5**				**<0.5**				**<1.0**		<0.1
5	<0.5			**<0.5**	<0.5			**<0.5**	<1.0			**<1.0**	2.1	
6	7.1	11	7.2	**4.9**	<0.5	0.5	<0.5	**<0.5**	<1.0	<0.5	<1.0	**<1.0**	0.7	<0.1
7	**33**	**7.9**	**0.77**	**0.5**	1.2	<0.5	<0.5	**<0.5**	2.9	1.3	<1.0	**<1.0**	0.6	0.3
8	180	188	151	**126**	9.9	10	8.5	**10**	17	24	35	**27**	3	<0.1
11			<0.5	**<0.5**			<0.5	**<0.5**			<1.0	**<1.0**		<0.1
L-87-1	<0.5			**<0.5**	<0.5			**<0.5**	<1.0			**<1.0**	0.8	
L-87-2														
L-87-3	262	183	188	**195**	24	22	18	**17**	68	121	81	**56**	0.4	<0.1
L-87-4	<0.5	<0.5		**<0.5**	<0.5	<0.5		**<0.5**	<0.5	<0.5		**<1.0**	4.4	0.3
L-87-5	**335**	**350**	**349**	**367**	**8.7**	**11**	**15**	**15**	**5.4**	**6.2**	**7.5**	**7.8**	0.6	<0.1
L-87-6														
L-87-7			<0.5	**<0.5**			<0.5	**<0.5**			<1.0	**<1.0**		4.2
L-87-8	**58**	**32**	**68**	**98**	7.8	4.3	7.3	**11**	3.5	2.4	6.1	**9.3**	14.8	0.3
L-88-9	<1.0			**<0.5**	<0.5			**<0.5**	<1.0			**<1.0**	0.7	0.1
L-88-10	160		137	**155**	31		28	**30**	106.3		197.1	**357**	0.6	0.1
L-88-11	<0.5			**<0.5**	<0.5			**<0.5**	<1.0			**<1.0**	0.9	0.2
L-88-12	255			**197**	4.9			**4.5**	3.5			**2.1**	0.7	<0.1
L-88-13	**52**	**62**	**69**	**80**	**7.6**	**8.1**	**11**	**14**	**6.8**	**8.1**	**17**	**24**	2	<0.1
LS-6	<0.5			**<0.5**	<0.5			**<0.5**	<1.0			**<1.0**	9.9	0.2
LS-7	<0.5			**<0.5**	<0.5			**<0.5**	<1.0			**<1.0**	4.2	0.9
LS-8	**146**	**181**	**136**	**98**	**20**	**16**	**14**	**7.8**	**84.3**	**69**	**45**	**21**	0.8	0.1
LS-10														
LS-11	**115**	**164**		**23**	**17**	**15**		**30**	**58**	**60**		**122**	0.5	1.7
RAINBOW	35				5.2				8.9					
POTW	73			**46**	6.9			**2.1**	9.2			**5.5**		
B-STR.				**				**				**		**
D-STR.				**<0.5**				**<0.5**				**<1.0**		<0.1
L-STR.	<0.5			**<0.5**	<0.5			**<0.5**	<1.0			**<1.0**		<0.1
Q-STR.	0.66			**0.95**	<0.5			**<0.5**	<1.0			**<1.0**		<0.1
CLARENCE				**<0.5**				**<0.5**				**<1.0**		<0.1
WERNER				**<0.5**				**<0.5**				**<1.0**		<0.1

Notes:

* Includes both cis-1,2 and trans-1,2 DCE

** Not sampled due to construction near well

*** Total Petroleum Hydrocarbons

TABLE 3.0

SUMMARY OF ANALYTICAL RESULTS
Aug-89

COMPOUND	LS-11	L-87-7	L-88-10	L-88-13
	ug/l	ug/l	ug/l	ug/l
Ethylbenzene	<1.0	5.7	<1.0	<1.0
M+p-Xylene	<1.0	3.8	<1.0	<1.0
o-Xylene	<1.0	2	<1.0	<1.0
Isopropylbenzene	<1.0	5.9	<1.0	<1.0
n-Propylbenzene	<1.0	1.8	<1.0	<1.0
2-Chlorotoluene	<1.0	1.1	3.6	<1.0
1,3-Dichlorobenzene	2.7	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	28	<0.5	1.8	<0.5
1,2-Dichlorobenzene	<1.0	<1.0	1.4	<1.0
Naphthalene	<1.0	32	<1.0	<1.0
Benzene	0.89	1.2	<0.5	<0.5
Chlorobenzene	167	<1.0	28	3.6

2.1.2 *Total Petroleum Hydrocarbons*

Concentrations of total petroleum hydrocarbons (TPH) in the August quarterly sampling round ranged from less than 0.1 ppm to 4.2 ppm. As shown in Table 2.0, August 1989 TPH concentrations are considerably smaller than those detected in the May 1989 sampling round. This may result from reduced upward flow from the bedrock during summer when the water table in the alluvial aquifer is at its highest point.

Most of the detectable concentrations of TPH in the August sampling round were at wells within or near the diesel plume or the API separator. The small TPH concentrations at these wells can be attributed to release of hydrocarbons from these sources.

Small concentrations of TPH detected at wells 7 and L-88-11 may be from seepage of naturally occurring hydrocarbons from the bedrock. The Cokedale Formation, which underlies most of the aquifer, is very carbonaceous and can be expected to release low concentrations of hydrocarbons to the aquifer. Oil sheens were observed in water produced from both L-88-11 and L-88-12 when bedrock was encountered during drilling.

2.1.3 *Diesel Fuel Plume*

The diesel plume occupied approximately the same position between May and August 1989, as shown on Figure 3.0. The thickness of the plume at particular wells changed slightly as the water table fluctuated, but the boundaries of the diesel plume have not varied significantly.

2.2 *RESULTS FROM THE LIVINGSTON MUNICIPAL WATER WELLS*

The August quarterly sampling round included the D Street, L Street, Q Street, Clarence Street, and Werner municipal water wells. The analytical results of these samples are summarized in Table 2.0. The B Street well was not operating at the time of sampling and could not be sampled; however, it was sampled on September 20, 1989. Results will be included in the September 1989 monthly sample report.

The Q Street well sample contained 0.95 ug/l of PCE, as shown on Table 2.0. This was the only municipal well which showed a detectable concentration of any of the method 524.2 analytes other than trihalomethanes. Samples from the L Street well in both May and August contained no detectable concentrations of PCE, TCE, or DCE. Chloroform, bromoform, and other trihalomethanes were detected in the municipal water wells; however, these compounds are interpreted to result from chlorination at the wellhead, not contamination from elsewhere in the aquifer.

As shown on Table 2.0, no detectable concentrations of total petroleum hydrocarbons were found in samples from any of the five municipal wells tested during the August sampling round.

3.0 INTERPRETATION

This section presents an interpretation of the August 1989 quarterly sampling results compared to results from May through July 1989. The shape of the potentiometric surface of the alluvial aquifer has changed significantly over this period in some parts of the rail yard. This has impacted contaminant concentrations at some monitoring wells.

3.1 Potentiometric Surface

As shown in Figure 1.0, ground water flow beneath the rail yard during late August was northeast. Two areas of flow convergence are apparent in the contours: one near the Main Street underpass, and the other immediately east of the rail yard shops. Convergence of flow lines at the Main Street underpass is due to discharge from the alluvial aquifer into a subsurface drain. This drain runs from the underpass southeast down B Street and discharges approximately two cubic feet per second into Fleshman Creek. Apparent convergence of flow lines immediately east of the rail yard shops is due to depression of the water table by the diesel plume and does not indicate discharge from the aquifer.

Ground water flow in the alluvial aquifer became more easterly between May and August 1989, particularly at the northeast end of the rail yard near the Yellowstone River. As shown on Figure 2.0, flow was north, nearly parallel to the Yellowstone River, during May 1989 when the water table elevation was low. In August, flow was eastward into the Yellowstone River, as shown on figure 1.0. This is a result of a rise in the water table from irrigation north of the rail yard and natural recharge to the aquifer. The boundaries of the solvent plume on the northeast end of the rail yard and the contaminant concentrations within the plume vary in response to these seasonal changes in ground water flow directions. Table 2.0 shows the degree of variation at particular wells through the summer of 1989.

3.2 WATER QUALITY

The Environmental Site Audit Report describes the four primary sources of VOC's at the rail yard as the shop complex, the WWTP sump, the cinder pile lagoon, and the API separator and overflow pond. The location of these features are shown on Figure 1.0.

The shop complex was primarily a source of PCE to the aquifer. This is revealed at wells L-87-5 and L-88-12 where TCE and DCE concentrations are much smaller than PCE concentrations, as shown on Table 2.0. PCE is far more volatile than DCE; however, because these solvents were

released in the subsurface, little volatilization occurred. Consequently, PCE is the predominant constituent in this part of the rail yard. Concentrations of PCE, TCE, and DCE in wells L-87-5 and L-88-12 have been very consistent. Slight changes in ground water flow directions do not significantly affect these wells because they are centered in the plume and directly downgradient from the source.

Sample results show a progressive increase in DCE to PCE concentration ratios downgradient (northeast) from the shop complex. August ratios of DCE to PCE increase from less than .02 at well L-87-5 near the shops to as large as 5 in well LS-11 on the extreme northeast end of the rail yard. These differences in contaminant composition between the shops and the northeast area of the rail yard could result from:

- infiltration of DCE enriched wastes from the pits and lagoons
- release of DCE from residual diesel fuel in alluvium that becomes water saturated when the water table rises
- biodegradation of PCE to DCE as it migrates downgradient from the source areas.

Sludge samples taken from the WWTP sump and the cinder pile sludge pit in June 1989 revealed DCE as the predominant chlorinated solvent. No detectable concentrations of PCE or TCE were found. Most PCE and TCE present in wastes deposited in these pits probably volatilized before infiltration. Consequently, solvents infiltrating from these sources are enriched in DCE relative to other solvents.

As shown in appendix A, a diesel sample from well LPW-1 showed 38 ug/g of cis-1,2-DCE and other chlorinated constituents. As the water table under the diesel plume rises in the spring through alluvium that was saturated with diesel during the winter, these constituents may be mobilized. The consistent May to August increase in DCE concentrations at L-88-10 and L-88-13 may reflect this phenomenon.

Chlorobenzenes and 2-chlorotoluene detected at wells L-88-10 and L-88-13 could be from the WWTP sump, the cinder pile lagoon, or the diesel plume. Based on the ground water flow direction shown by the potentiometric surface on Figure 1.0, these compounds are most likely derived from the diesel plume and/or WWTP sump.

The May to August increase in DCE and chlorobenzene at LS-11 is likely a result of wastes flushed from sludges in the soil north of the overflow pond. This could occur when the water table rises into these soils during the spring and summer.

Benzene, ethylbenzene, xylene, and other compounds detected at well L-87-7 form an isolated anomaly of primarily gasoline constituents. This well is located within 100 feet of an automobile alignment shop and

gasoline storage tanks at a Conoco station on Park Street. It is possible that the compounds detected at well L-87-7 result from leaks or spills at these businesses.

4.0 QA/QC RESULTS

Envirocon followed the QA/QC program outlined in Section 10 of the Interim Remedial Measures Work Plan (IRMWP) during the August 1989 quarterly sampling round. This program includes:

Field QA/QC
- field duplicates
- trip blanks
- equipment blanks

Laboratory QA/QC
- spiked analyses
- laboratory duplicates
- EPA QA/QC samples

QA/QC samples were analyzed by the same EPA methods 524.2 as the field samples.

4.1 FIELD QA/QC

As shown in Table 1.0, five field duplicates and five trip blanks were used to validate field procedures. No equipment blank was taken. Field QA/QC results are discussed in section 4.1.1.

4.1.1 Field Duplicates

Field duplicates from wells 6, L-88-13, 1, 3, and L Street were sent blind to ELI. As shown in Appendix A, analysis of the duplicates show excellent correlation with the original samples from these wells. This indicates that laboratory procedures are sufficient to generate reproducible results.

4.1.2 Trip Blanks

As shown in Appendix A, no analytes were detected in any of the five trip blanks. This indicates that sample handling and shipping protocols were sufficient to maintain sample integrity.

4.2 LABORATORY QA/QC

Energy Laboratories conducted three spiked analyses, three laboratory duplicate analyses, and three sets of EPA QA/QC samples to validate laboratory procedures. ELI's QA/QC plan is on file at the MDHES.

4.2.1 *Spiked Analyses*

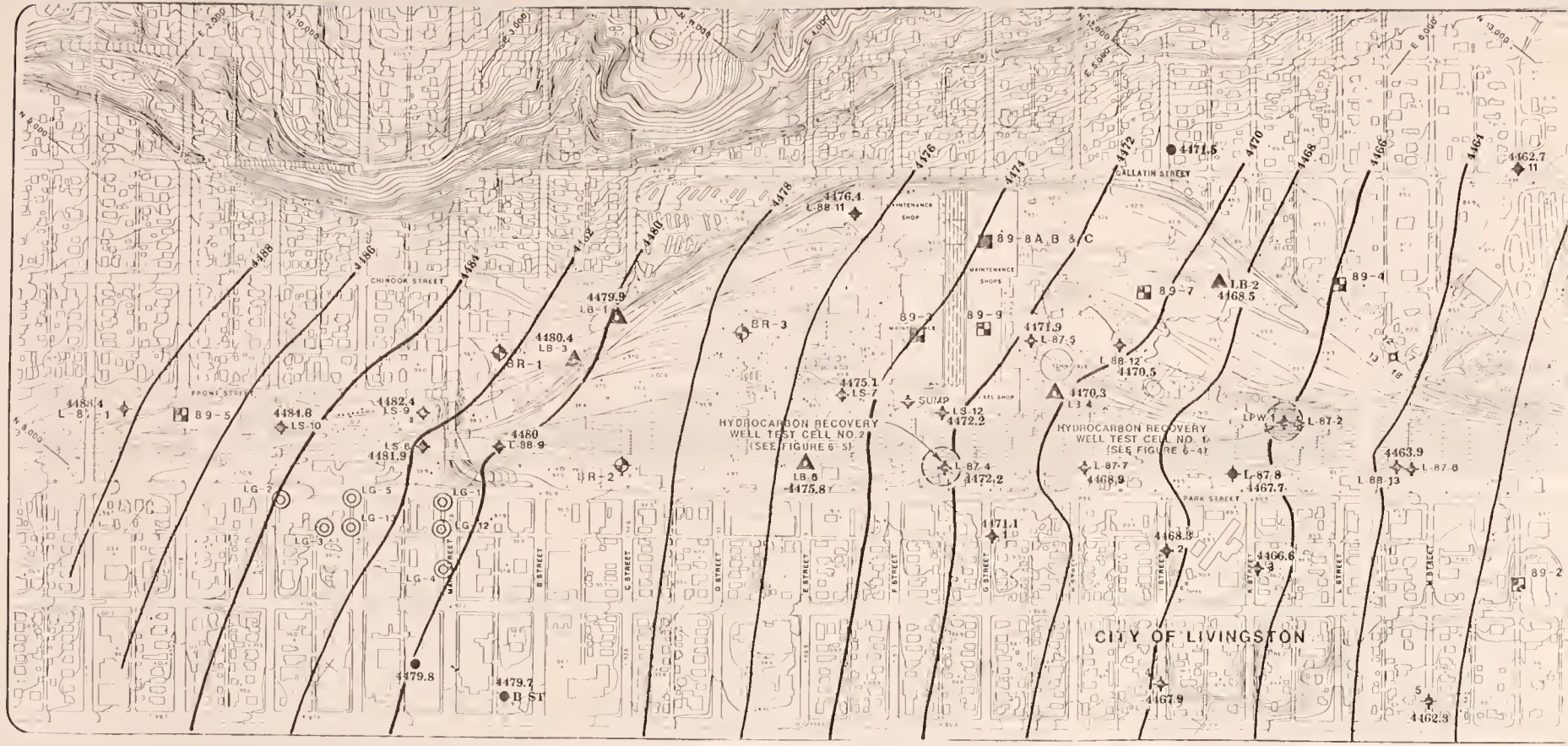
Spiked analyses were conducted on samples 140101-069, 140101-085, and 140101-094. Results of these analyses are shown in Appendix A. The recovery percentages of the test values are all within the acceptable ranges. These results indicate that ELI's laboratory equipment and procedures were adequate to provide satisfactory results.

4.2.2 *Laboratory Duplicate Analyses*

ELI preformed duplicate analyses on samples 140101-067, 140101-086, and 140101-101. As shown in Appendix A, the concentrations of VOC's reported in the duplicate analyses were very close to those reported in the original sample analyses. This indicates that laboratory equipment and procedures were adequate to provide reproducible analytical results.

4.2.3 *EPA QA/QC Sample Analyses*

ELI analyzed three sets of EPA QA/QC reference samples in addition to samples submitted by Envirocon. All test values were within acceptable ranges for the percentage recovery. These results indicate that laboratory equipment and procedures were adequate to provide accurate results.


CHINOOK STREET
FRONT STREET
GALLATIN STREET
PARK STREET
B STREET
C STREET
D STREET
E STREET
F STREET
G STREET
H STREET
K STREET
L STREET
MAINTENANCE SHOP
MAINTENANCE SHOPS
HYDROCARBON RECOVERY WELL TEST CELL NO. 2 (SEE FIGURE 6-5)
HYDROCARBON RECOVERY WELL TEST CELL NO. 1 (SEE FIGURE 6-4)
CITY OF LIVINGSTON
4488.4
L-8
89-5
4484.6
LS-10
4482.4
LS-9
4481.9
LS-6
4480
L-88-9
4479.9
LB-1
4480.4
LB-3
BR-1
BR-2
BR-3
LG-1
LG-2
LG-3
LG-4
LG-5
LG-12
4479.8
4479.7
B ST
4476.4
L-88-11
89-8A, B & C
89-3
89-9
4475.1
LS-7
SUMP
LS-12
4472.2
LB-8
4475.8
L-87-4
4472.2
4471.9
L-87-5
4471.5
89-7
LB-2
4468.5
L-88-12
4470.5
4470.3
L3-4
LPW-1
L-87-2
L-87-7
4468.9
L-87-8
4467.7
4471.1
1
4468.2
2
4466.6
3
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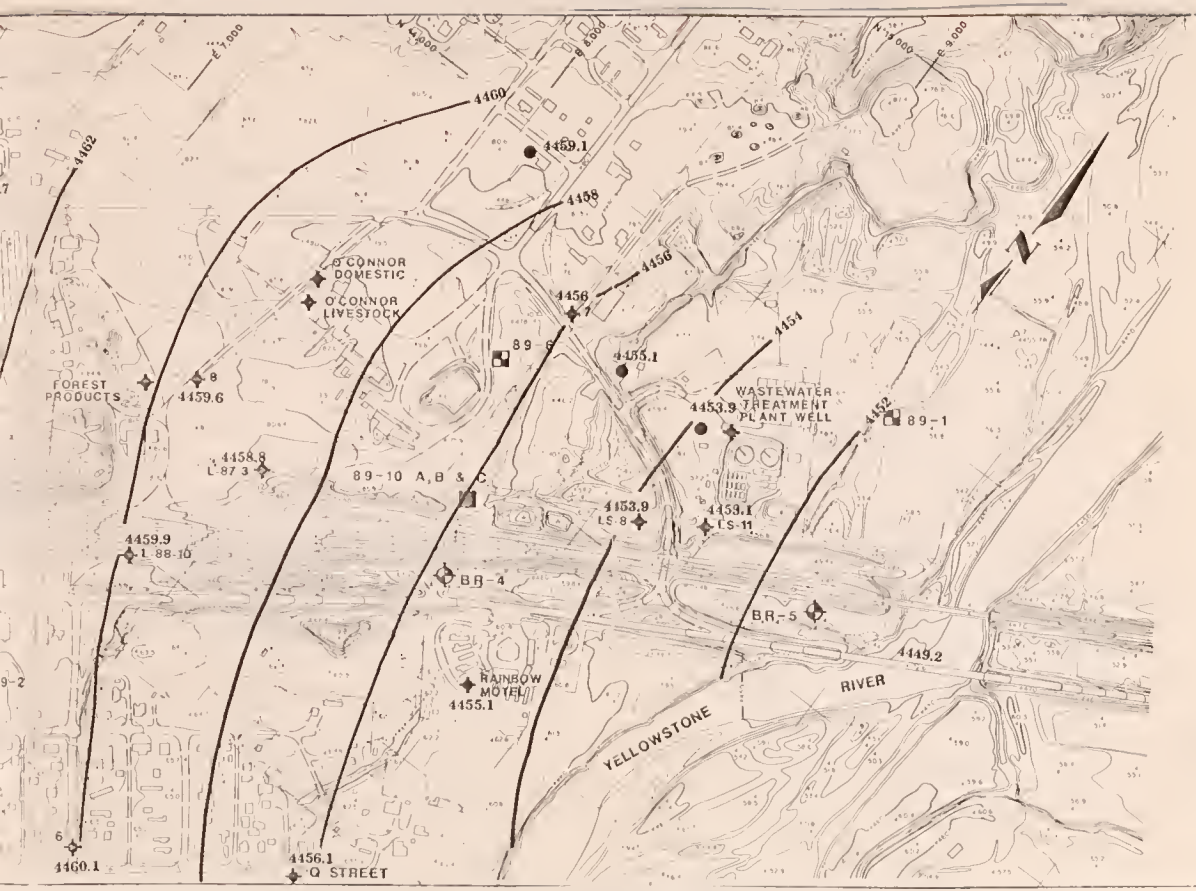
L-88-13
4462.7
11
89-2
5
4462.3



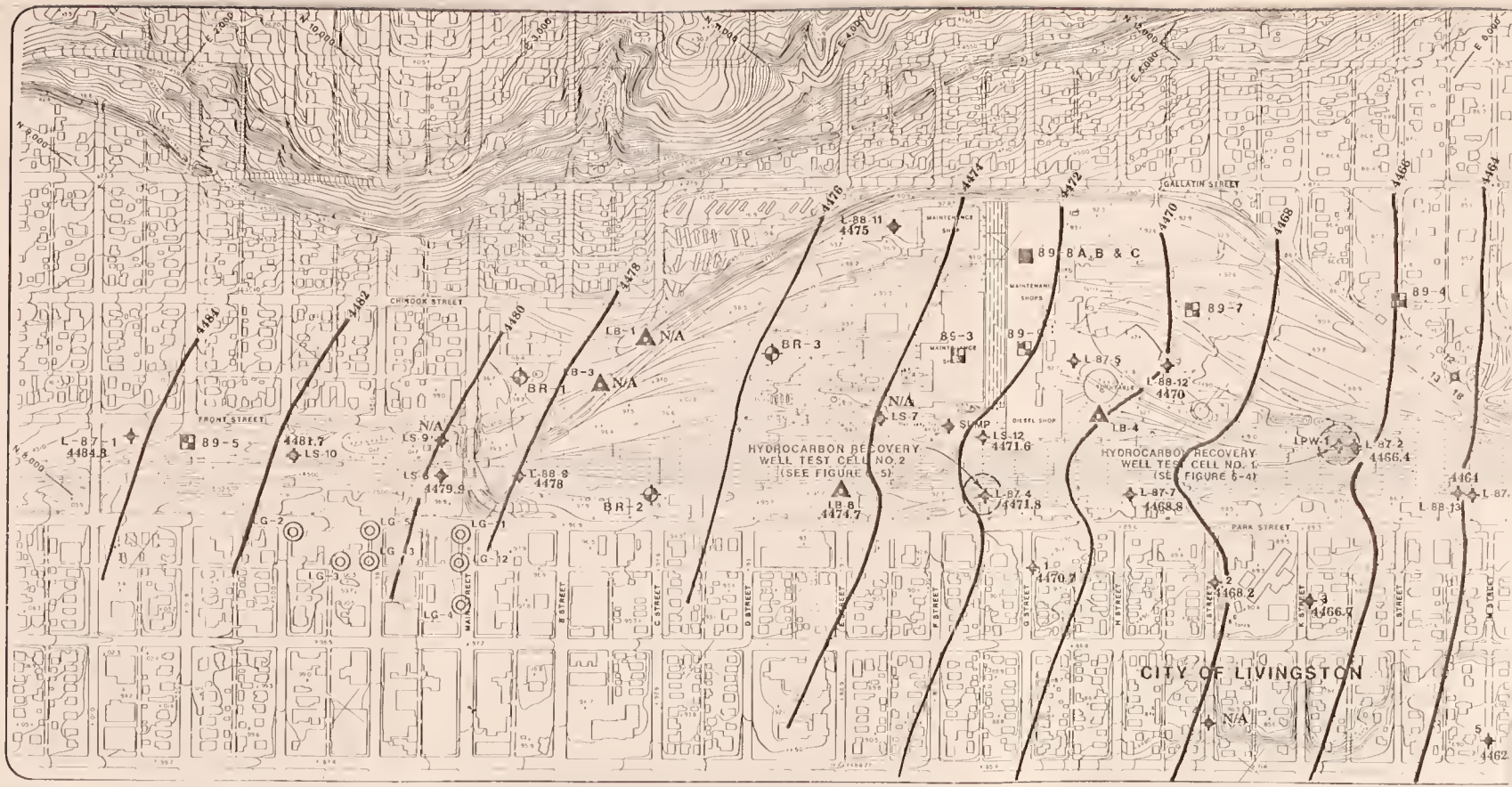
LEGEND

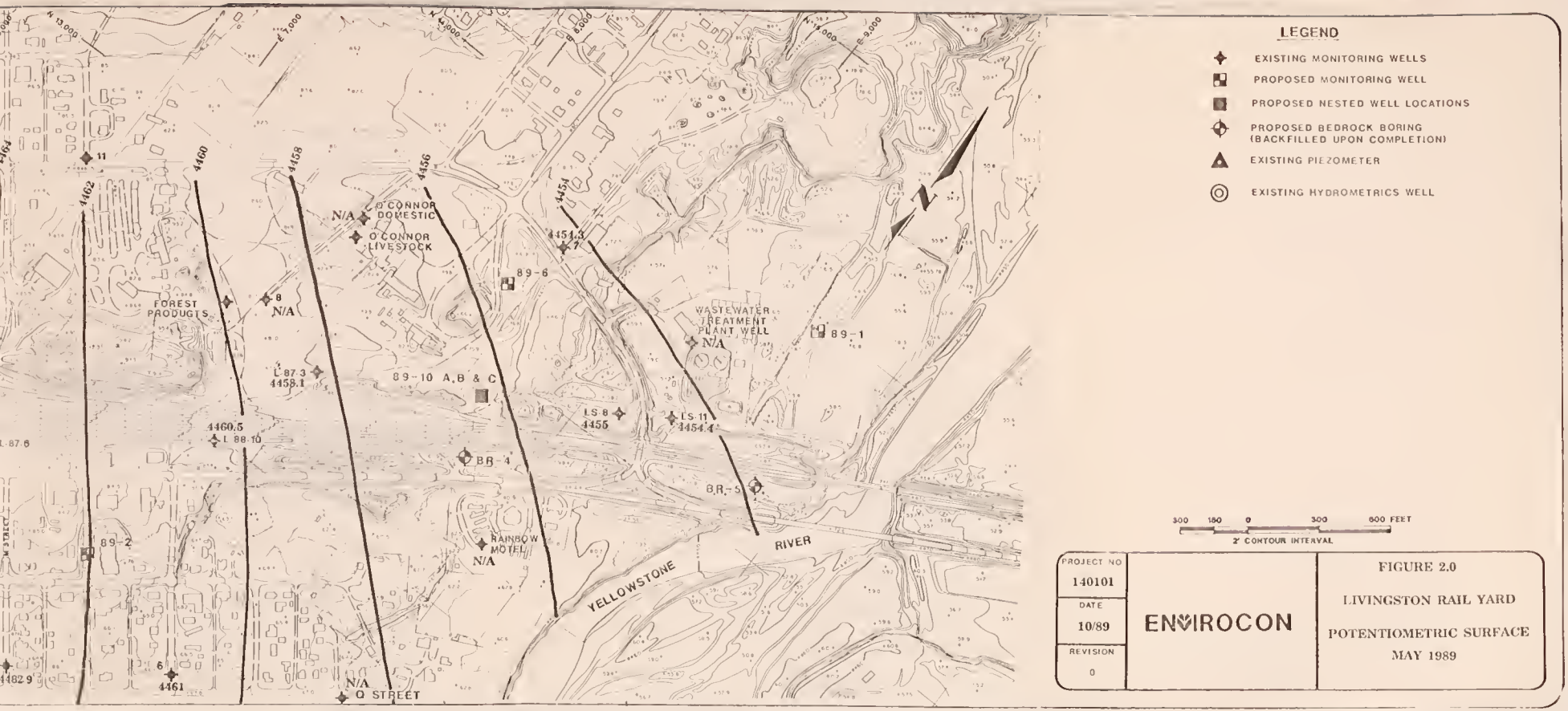
- EXISTING MONITORING WELLS
- PROPOSED MONITORING WELL
- PROPOSED NESTED WELL LOCATIONS
- PROPOSED BEDROCK BORING (BACKFILLED UPON COMPLETION)
- EXISTING PIEZOMETER
- EXISTING HYDROMETRICS WELL

300 150 0 300 600 FEET

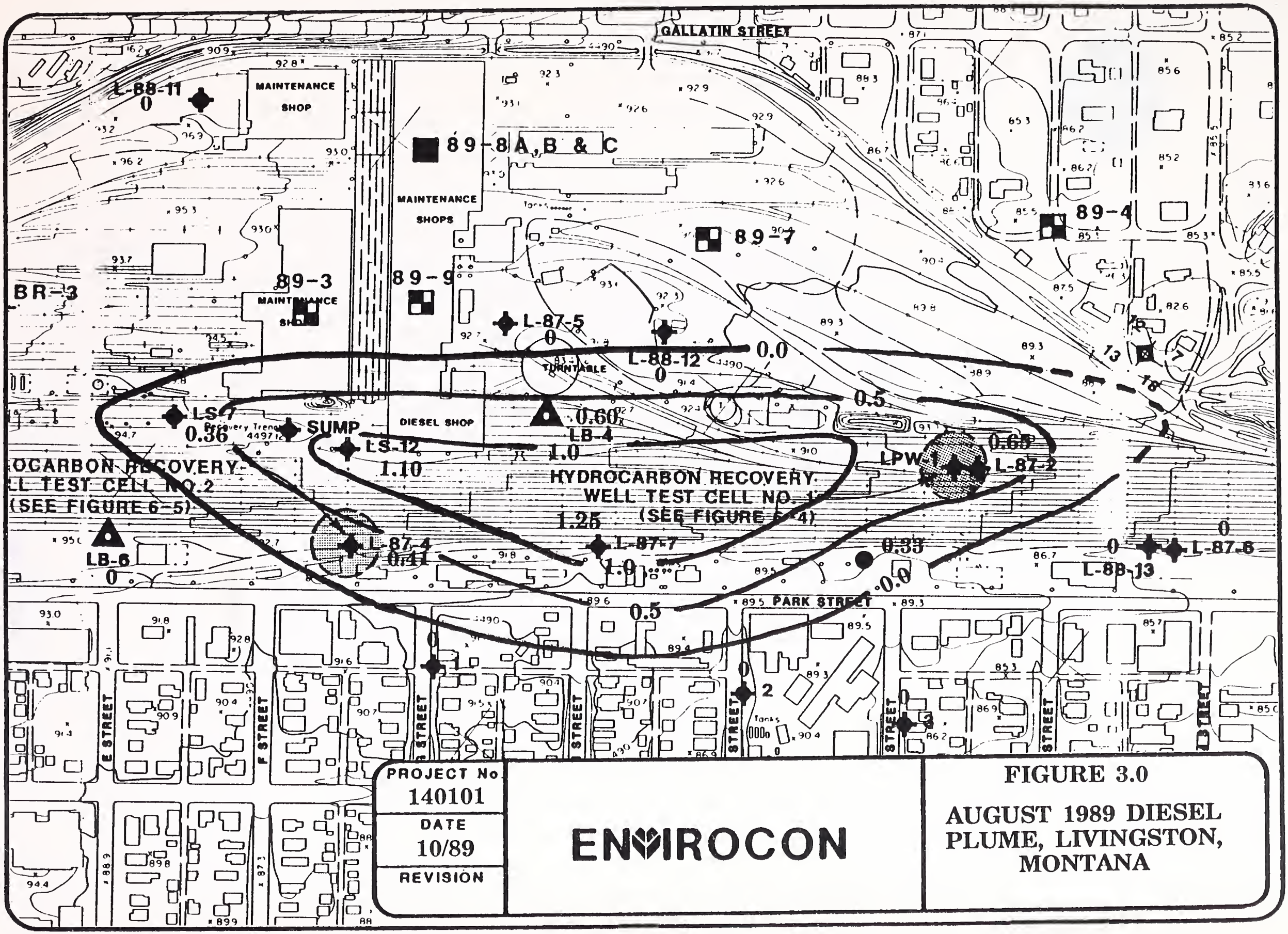
2' CONTOUR INTERVAL

PROJECT NO. 140101	ENVIROCON	FIGURE 1.0
DATE 10/89		LIVINGSTON RAIL YARD
REVISION 0		POTENTIOMETRIC SURFACE AUGUST 1989


CHINOOK STREET
FRONT STREET
GALLATIN STREET
PARK STREET
MAIN STREET
B STREET
C STREET
D STREET
E STREET
F STREET
G STREET
H STREET
I STREET
J STREET
K STREET
L STREET
M STREET
MAINTENANCE SHOP
MAINTENANCE SHOPS
DIESEL SHOP
SUMP
HYDROCARBON RECOVERY WELL TEST CELL NO. 2 (SEE FIGURE 6-5)
HYDROCARBON RECOVERY WELL TEST CELL NO. 1 (SEE FIGURE 6-4)
CITY OF LIVINGSTON
L-87-1 4484.8
89-5
4481.7
LS-10
4484
4482
4480
4478
4476
4474
4472
4470
4468
4466
4464
LS-9
N/A
LS-6
4479.9
L-88-8 4478
LB-1
N/A
LB-3
N/A
BR-1
BR-2
BR-3
L-88-11 4475
89-8A,B & C
89-3
89-7
89-4
L-87-5
L-88-12 4470
LB-4
N/A
LS-7
LS-12 4471.6
LB-5 4474.7
L-87-4 4471.8
L-87-7 4468.8
LPW-1
L-87-2 4466.4
L-88-13
4464
L-87-
LG-1
LG-2
LG-3
LG-4
LG-5
LG-6
1 4470.7
2 4468.2
3 4466.7
N/A
5
4462



PROJECT NO 140101	ENVIROCON	FIGURE 2.0
DATE 10/89		LIVINGSTON RAIL YARD
REVISION 0		POTENTIOMETRIC SURFACE MAY 1989



PROJECT No. 140101	ENVIROCON	FIGURE 3.0 AUGUST 1989 DIESEL PLUME, LIVINGSTON, MONTANA
DATE 10/89		
REVISION		

APPENDIX A

SAMPLING RESULTS

ENVIROCON, INC.

ENERGY LABORATORIES, INC.
P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14045 -55
DATE: 09/18/89 dya

WATER ANALYSIS

Livingston/BN
Sampled 09/01/89
Submitted 09/05/89

Lab No.	Identification	Total Petroleum Hydrocarbons, mg/l
89-14045	140101-067, sampled @ 1055	<0.1
89-14046	140101-068, Sampled @ 0950	0.1
89-14047	140101-069, Sampled @ 1150	0.2
89-14048	140101-070, Sampled @ 1240	0.9
89-14049	140101-071, Sampled @ 1410	0.3
89-14050	140101-072, Sampled @ 1445	4.2
89-14051	140101-073, Sampled @ 1625	0.3
89-14052	140101-074, Sampled @ 1705	<0.1
89-14053	140101-075, Sampled @ 1705	<0.1
89-14054	140101-076, Sampled @ 1740	0.3
89-14055	140101-077, Sampled @ 1820	1.7

cc: Envirocon, Livingston.

ENERGY LABORATORIES

ENERGY LABORATORIES, INC.

P O BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14056 -65
DATE: 09/18/89 dya

WATER ANALYSIS

Livingston/BN
Sampled 09/02/89
Submitted 09/05/89

Lab No.	Identification	Total Petroleum Hydrocarbons, mg/l
89-14056	140101-079, Sampled @ 0910	0.1
89-14057	140101-080, Sampled @ 0940	0.1
89-14058	140101-081, Sampled @ 1020	<0.1
89-14059	140101-082, Sampled @ 1050	<0.1
89-14060	140101-083, Sampled @ 1200	<0.1
89-14061	140101-084, Sampled @ 1515	<0.1
89-14062	140101-085, Sampled @ 1425	<0.1
89-14063	140101-086, Sampled @ 1720	<0.1
89-14064	140101-087, Sampled @ 1720	<0.1
89-14065	140101-088, Sampled @ 1840	<0.1

cc: Envirocon, Livingston.

ENERGY LABORATORIES, INC.
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800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14201 -10
DATE: 09/20/89 dya

WATER ANALYSIS

Livingston/BN
Submitted 09/07/89

Lab No.	Identification	Total Petroleum Hydrocarbons, mg/l
89-14201	140101-090, Sampled 09/05/89 @ 1337	0.2
89-14202	140101-091, Sampled 09/05/89 @ 1612	<0.1
89-14203	140101-092, Sampled 09/05/89 @ 1654	<0.1
89-14204	140101-093, Sampled 09/05/89	<0.1
89-14205	140101-095, Sampled 09/06/89 @ 1001	<0.1
89-14206	140101-096, Sampled 09/06/89 @ 1024	<0.1
89-14207	140101-097, Sampled 09/06/89 @ 1045	<0.1
89-14208	140101-099, Sampled 09/06/89 @ 1100	<0.1
89-14209	140101-100, Sampled 09/06/89 @ 1320	<0.1
89-14210	140101-101, Sampled 09/06/89 @ 1331	<0.1

cc: Envirocon, Livingston.

ENERGY LABORATORIES, INC.
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800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-13532
DATE: 09/22/89 dya

WATER ANALYSIS

BN-Livingston
140101-065
Sampled 08/24/89 @ 10:49
Submitted 08/25/89

Constituent	ug/l
Purgeable Halocarbons (EPA Method 601):	
Bromodichloromethane	<1.0
Bromoform	<1.0
Bromomethane	<1.0
Carbon tetrachloride	<0.50
Chlorobenzene	<1.0
Chloroethane	<1.0
2-Chloroethylvinyl ether	<1.0
2-Chlorotoluene	<1.0
Chloroform	<1.0
Chloromethane	<1.0
Dibromochloromethane	<1.0
1,2-Dichlorobenzene	<1.0
1,3-Dichlorobenzene	<1.0
1,4-Dichlorobenzene	<0.50
1,1-Dichloroethane	<1.0
1,2-Dichloroethane	<0.50
1,1-Dichloroethene	<0.50
cis-1,2-Dichloroethene	<1.0
trans-1,2-Dichloroethene	<1.0
1,2-Dichloropropane	<1.0
cis-1,3-Dichloropropene	<1.0
trans-1,3-Dichloropropene	<1.0
Methylene chloride	<1.0
1,1,2,2-Tetrachloroethane	<1.0
Tetrachloroethene	<0.50
1,1,1-Trichloroethane	<0.50
1,1,2-Trichloroethane	<1.0
Trichloroethene	<0.50
Trichlorofluoromethane	<1.0
Vinyl chloride	<0.50
Dichlorodifluoromethane	<1.0

cc: Envirocon, Livingston

ENERGY LABORATORIES, INC.
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800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. box 8243
Missoula, MT 59807

LAB NO.: 89-13532
DATE: 09/22/89 dya

WATER ANALYSIS

BN-Livingston
140101-065
Sampled 08/24/89 @ 10:49
Submitted 08/25/89

Dissolved:	mg/l
Arsenic	<0.005
Barium	<0.1
Cadmium	<0.001
Chromium	<0.02
Lead	<0.01
Mercury	<0.001
Selenium	<0.005
Silver	<0.005

ENERGY LABORATORIES, INC.
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800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-13533
DATE: 09/22/89 dya

WATER ANALYSIS

BN-Livingston
140101-066
Sampled 08/24/89 @ 11:05
Submitted 08/25/89

Constituent	ug/l
Purgeable Halocarbons (EPA Method 601):	
Bromodichloromethane	<1.0
Bromoform	<1.0
Bromomethane	<1.0
Carbon tetrachloride	<0.50
Chlorobenzene	<1.0
Chloroethane	<1.0
2-Chloroethylvinyl ether	<1.0
2-Chlorotoluene	<1.0
Chloroform	<1.0
Chloromethane	<1.0
Dibromochloromethane	<1.0
1,2-Dichlorobenzene	<1.0
1,3-Dichlorobenzene	<1.0
1,4-Dichlorobenzene	<0.50
1,1-Dichloroethane	<1.0
1,2-Dichloroethane	<0.50
1,1-Dichloroethene	<0.50
cis-1,2-Dichloroethene	<1.0
trans-1,2-Dichloroethene	<1.0
1,2-Dichloropropane	<1.0
cis-1,3-Dichloropropene	<1.0
trans-1,3-Dichloropropene	<1.0
Methylene chloride	<1.0
1,1,2,2-Tetrachloroethane	<1.0
Tetrachloroethene	<0.50
1,1,1-Trichloroethane	<0.50
1,1,2-Trichloroethane	<1.0
Trichloroethene	<0.50
Trichlorofluoromethane	<1.0
Vinyl chloride	<0.50
Dichlorodifluoromethane	<1.0

cc: Envirocon, Livingston

ENERGY LABORATORIES, INC.
P O BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14045
DATE: 09/18/89 dya

WATER ANALYSIS

#6

Livingston/BN
140101-067
Sampled 09/01/89 @ 1055
Submitted 09/05/89

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	<0.50	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	<0.50
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	<1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	4.9	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	<1.0	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

cc: Envirocon, Livingston.

ENERGY LABORATORIES, INC.
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800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14045 dup
DATE: 09/18/89 dya

QUALITY ASSURANCE - DUPLICATE ANALYSIS

#6

Livingston/BN
140101-067
Sampled 09/01/89 @ 1055
Submitted 09/05/89

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	<0.50	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	<0.50
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	<1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	5.2	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	<1.0	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

cc: Envirocon, Livingston.

ENERGY LABORATORIES, INC.
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800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14046
DATE: 09/18/89 dya

L-88-9

WATER ANALYSIS

Livingston/BN
140101-068
Sampled 09/01/89 @ 0950
Submitted 09/05/89

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	<0.50	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	<0.50
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	<1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	<0.50	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	<1.0	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

cc: Envirocon, Livingston.

ENERGY LABORATORIES, INC.
P O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS MT 59107-0916 • PHONE (406) 252-6325
800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14047
DATE: 09/18/89 dya

L-88-11

WATER ANALYSIS

Livingston/BN
140101-069
Sampled 09/01/89 @ 1150
Submitted 09/05/89

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	<0.50	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	<0.50
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	<1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	<0.50	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	<1.0	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

cc: Envirocon, Livingston.

ENERGY LABORATORIES, INC.
P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14048
DATE: 09/18/89 dya

WATER ANALYSIS

45-7

Livingston/BN
140101-070
Sampled 09/01/89 @ 1240
Submitted 09/05/89

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	<0.50	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	<0.50
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	<1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	<0.50	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	<1.0	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

cc: Envirocon, Livingston.

ENERGY LABORATORIES, INC.
P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14049
DATE: 09/18/89 dya

WATER ANALYSIS

L-87-4

Livingston/BN
140101-071
Sampled 09/01/89 @ 1410
Submitted 09/05/89

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	<0.50	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	<0.50
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	<1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	<0.50	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	<1.0	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

cc: Envirocon, Livingston.

ENERGY LABORATORIES, INC.
P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
800-873-5227

LABORATORY REPORT

TO: Environcon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14050
DATE: 09/18/89 dya

WATER ANALYSIS

L-87-7

Livingston/BN
140101-072
Sampled 09/01/89 @ 1445
Submitted 09/05/89

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	5.7
Vinyl chloride	<0.50	m+p-Xylene	3.8
Bromomethane	<1.0	o-Xylene	2.0
Chloroethane	<1.0	Styrene	<1.0
Trichlorofluoromethane	<1.0	Bromoform	<1.0
1,1-Dichloroethene	<0.50	Isopropylbenzene	5.9
Methylene Chloride	<1.0	1,1,2,2-Tetrachloroethane	<1.0
trans-1,2-Dichloroethene	<1.0	Bromobenzene	<1.0
1,1-Dichloroethane	<1.0	1,2,3-Trichloropropane	<1.0
2,2-Dichloropropane	<1.0	n-Propylbenzene	1.8
cis-1,2-Dichloroethene	<1.0	2-Chlorotoluene	1.1
Chloroform	<1.0	1,3,5-Trimethylbenzene	<1.0
Bromochloromethane	<1.0	4-Chlorotoluene	<1.0
1,1,1-Trichloroethane	<0.50	tert-Butylbenzene	<1.0
Carbon Tetrachloride	<0.50	1,2,4-Trimethylbenzene	<1.0
1,1-Dichloropropene	<1.0	sec-Butylbenzene	<1.0
Benzene	1.2	p-Isopropyltoluene	<1.0
1,2-Dichloroethane	<0.50	1,3-Dichlorobenzene	<1.0
Trichloroethene	<0.50	1,4-Dichlorobenzene	<0.50
1,2-Dichloropropane	<1.0	n-Butylbenzene	<1.0
Bromodichloromethane	<1.0	1,2-Dichlorobenzene	<1.0
Dibromomethane	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
Toluene	<1.0	1,2,4-Trichlorobenzene	<1.0
1,1,2-Trichloroethane	<1.0	Hexachlorobutadiene	<1.0
Tetrachloroethene	<0.50	Naphthalene	32
1,3-Dichloropropane	<1.0	1,2,3-Trichlorobenzene	<1.0
Dibromochloromethane	<1.0	cis-1,3-Dichloropropene	<1.0
1,2-Dibromoethane	<1.0	trans-1,3-Dichloropropene	<1.0
Chlorobenzene	<1.0		

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

cc: Envirocon, Livingston.

ENERGY LABORATORIES, INC.
P O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14051
DATE: 09/18/89 dya

L-87-8

WATER ANALYSIS

Livingston/BN
140101-073
Sampled 09/01/89 @ 1625
Submitted 09/05/89

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	9.3	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	11	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	<0.50
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	<1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	98	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	<1.0	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

cc: Envirocon, Livingston.

ENERGY LABORATORIES, INC.
P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14052
DATE: 09/18/89 dya

L-88-13

WATER ANALYSIS

Livingston/BN
140101-074
Sampled 09/01/89 @ 1705
Submitted 09/05/89

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	24	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	14	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	<0.50
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	<1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	80	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	3.6	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

cc: Envirocon, Livingston.

ENERGY LABORATORIES, INC.
P O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14053
DATE: 09/18/89 dya

WATER ANALYSIS

L-88-13

Livingston/BN
140101-075
Sampled 09/01/89 @ 1705
Submitted 09/05/89

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	23	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	14	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	<0.50
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	<1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	82	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	3.5	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

cc: Envirocon, Livingston.

ENERGY LABORATORIES, INC.
P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14054
DATE: 09/18/89 dya

WATER ANALYSIS

#7

Livingston/BN
140101-076
Sampled 09/01/89 @ 1740
Submitted 09/05/89

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	<0.50	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	<0.50
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	<1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	0.50	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	<1.0	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

cc: Envirocon, Livingston.

ENERGY LABORATORIES, INC.
P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14055
DATE: 09/18/89 dya

LS- 11

WATER ANALYSIS

Livingston/BN
140101-077
Sampled 09/01/89 @ 1820
Submitted 09/05/89

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	19	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	103	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	0.89	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	30	1,3-Dichlorobenzene	2.7
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	28
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	23	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	167	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

cc: Envirocon, Livingston.

ENERGY LABORATORIES, INC.
P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14066
DATE: 09/18/89 dya

WATER ANALYSIS

Livingston/BN
140101-078
Sampled 09/01/89 @ 1840
Submitted 09/05/89

TRIP Blank

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	<0.50	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	<0.50
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	<1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	<0.50	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	<1.0	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

cc: Envirocon, Livingston.

ENERGY LABORATORIES, INC.
P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14056
DATE: 09/18/89 dya

WATER ANALYSIS

LS-8

Livingston/BN
140101-079
Sampled 09/02/89 @ 0910
Submitted 09/05/89

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	21	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	7.8	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	<0.50
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	<1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	98	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	<1.0	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

cc: Envirocon, Livingston.

ENERGY LABORATORIES, INC.
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800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14057
DATE: 09/18/89 dya

L-88-10

WATER ANALYSIS

Livingston/BN
140101-080
Sampled 09/02/89 @ 0940
Submitted 09/05/89

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	1.3	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	4.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	353	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	3.6
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	30	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	1.8
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	1.4
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	155	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	28	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

cc: Envirocon, Livingston.

ENERGY LABORATORIES, INC.
P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14058
DATE: 09/18/89 dya

WATER ANALYSIS

#8

Livingston/BN
140101-081
Sampled 09/02/89 @ 1020
Submitted 09/05/89

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	27	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	10	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	<0.50
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	<1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	126	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	<1.0	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

cc: Envirocon, Livingston.

ENERGY LABORATORIES, INC.
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800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14059
DATE: 09/18/89 dya

L-87-3

WATER ANALYSIS

Livingston/BN
140101-082
Sampled 09/02/89 @ 1050
Submitted 09/05/89

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	56	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	17	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	<0.50
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	<1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	195	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	<1.0	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

cc: Envirocon, Livingston.

ENERGY LABORATORIES, INC.
P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14060
DATE: 09/18/89 dya

L-88-12

WATER ANALYSIS

Livingston/BN
140101-083
Sampled 09/02/89 @ 1200
Submitted 09/05/89

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	2.1	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	4.5	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	<0.50
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	<1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	197	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	<1.0	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

cc: Envirocon, Livingston.

ENERGY LABORATORIES, INC.
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LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14061
DATE: 09/18/89 dya

WATER ANALYSIS

Livingston/BN
140101-084
Sampled 09/02/89 @ 1515
Submitted 09/05/89

4-87-5

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	7.8	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	15	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	<0.50
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	<1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	367	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	<1.0	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

cc: Envirocon, Livingston.

ENERGY LABORATORIES, INC.
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LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14062
DATE: 09/18/89 dya

WATER ANALYSIS

#11

Livingston/BN
140101-085
Sampled 09/02/89 @ 1425
Submitted 09/05/89

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	<0.50	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	<0.50
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	<1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	<0.50	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	<1.0	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

cc: Envirocon, Livingston.

ENERGY LABORATORIES, INC.
P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
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LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14063
DATE: 09/18/89 dya

WATER ANALYSIS

#1

Livingston/BN
140101-086
Sampled 09/02/89 @ 1720
Submitted 09/05/89

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	<0.50	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	<0.50
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	<1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	0.62	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	<1.0	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

cc: Envirocon, Livingston.

ENERGY LABORATORIES, INC.
P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14063 dup
DATE: 09/18/89 dya

QUALITY ASSURANCE - DUPLICATE ANALYSIS #1

Livingston/BN
140101-086
Sampled 09/02/89 @ 1720
Submitted 09/05/89

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	<0.50	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	<0.50
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	<1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	0.60	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	<1.0	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

cc: Envirocon, Livingston.

ENERGY LABORATORIES, INC.
P O BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14064
DATE: 09/18/89 dya

WATER ANALYSIS

#1

Livingston/BN
140101-087
Sampled 09/02/89 @ 1720
Submitted 09/05/89

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	<0.50	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	<0.50
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	<1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	0.91	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	<1.0	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

cc: Envirocon, Livingston.

ENERGY LABORATORIES, INC.
P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14065
DATE: 09/18/89 dya

WATER ANALYSIS

#2

Livingston/BN
140101-088
Sampled 09/02/89 @ 1840
Submitted 09/05/89

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	<0.50	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	<0.50
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	<1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	1.3	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	<1.0	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

cc: Envirocon, Livingston.

ENERGY LABORATORIES, INC.
P O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14067
DATE: 09/18/89 dya

WATER ANALYSIS

Livingston/BN
140101-089
Sampled 09/02/89 @ 1900
Submitted 09/05/89

Trip Blank

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	<0.50	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	<0.50
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	<1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	<0.50	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	<1.0	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

cc: Envirocon, Livingston.

ENERGY LABORATORIES, INC.
P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14201
DATE: 09/20/89 dya

WATER ANALYSIS

Livingston/BN
140101-090
Sampled 09/05/89 @ 1337
Submitted 09/07/89

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	<0.50	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	<0.50
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	<1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	<0.50	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	<1.0	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

ENERGY LABORATORIES, INC.
P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14202
DATE: 09/20/89 dya

WATER ANALYSIS

Livingston/BN
140101-091
Sampled 09/05/89 @ 1612
Submitted 09/07/89

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	<0.50	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	<0.50
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	<1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	<0.50	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	<1.0	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

ENERGY LABORATORIES, INC.
P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14203
DATE: 09/20/89 dya

WATER ANALYSIS

Livingston/BN
140101-092
Sampled 09/05/89 @ 1654
Submitted 09/07/89

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	<0.50	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	<0.50
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	<1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	0.74	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	<1.0	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

ENERGY LABORATORIES, INC.
P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14204
DATE: 09/20/89 dya

WATER ANALYSIS

Livingston/BN
140101-093
Sampled 09/05/89
Submitted 09/07/89

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	<0.50	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	<0.50
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	<1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	0.78	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	<1.0	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

ENERGY LABORATORIES

ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14211
DATE: 09/20/89 dya

WATER ANALYSIS

Livingston/BN
140101-094
Sampled 09/05/89 @ 1900
Submitted 09/07/89

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	<0.50	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	<0.50
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	<1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	<0.50	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	<1.0	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

ENERGY LABORATORIES

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800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14205
DATE: 09/20/89 dya

WATER ANALYSIS

Livingston/BN
140101-095
Sampled 09/06/89 @ 1001
Submitted 09/07/89

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	<0.50	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	<0.50
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	<1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	0.95	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	<1.0	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

ENERGY LABORATORIES, INC.
P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14206
DATE: 09/20/89 dya

WATER ANALYSIS

Livingston/BN
140101-096
Sampled 09/06/89 @ 1024
Submitted 09/07/89

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	<0.50	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	<0.50
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	<1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	<0.50	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	<1.0	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

ENERGY LABORATORIES, INC.
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800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14207
DATE: 09/20/89 dya

WATER ANALYSIS

Livingston/BN
140101-097
Sampled 09/06/89 @ 1045
Submitted 09/07/89

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	<0.50	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	<0.50
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	<1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	<0.50	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	<1.0	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

ENERGY LABORATORIES, INC.
P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14212
DATE: 09/20/89 dya

WATER ANALYSIS

Livingston/BN
140101-098
Sampled 09/06/89 @ 1055
Submitted 09/07/89

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	<0.50	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	<0.50
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	<1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	<0.50	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	<1.0	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

ENERGY LABORATORIES, INC.
P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14208
DATE: 09/20/89 dya

WATER ANALYSIS

Livingston/BN
140101-099
Sampled 09/06/89 @ 1100
Submitted 09/07/89

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	<0.50	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	<0.50
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	<1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	<0.50	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	<1.0	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

ENERGY LABORATORIES, INC.
P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14209
DATE: 09/20/89 dya

WATER ANALYSIS

Livingston/BN
140101-100
Sampled 09/06/89 @ 1320
Submitted 09/07/89

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	<0.50	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	<0.50
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	<1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	<0.50	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	<1.0	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

ENERGY LABORATORIES, INC.
P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325
800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14210
DATE: 09/20/89 dya

WATER ANALYSIS

Livingston/BN
140101-101
Sampled 09/06/89 @ 1331
Submitted 09/07/89

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	<0.50	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	<0.50
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	<1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	<0.50	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	<1.0	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

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800-873-5227

LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14210 dup
DATE: 09/20/89 dya

QUALITY ASSURANCE - DUPLICATE ANALYSIS

Livingston/BN
140101-101
Sampled 09/06/89 @ 1331
Submitted 09/07/89

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	<0.50	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	<0.50
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	<1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	<0.50	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	<1.0	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

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LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14213
DATE: 09/20/89 dya

WATER ANALYSIS

Livingston/BN
140101-102
Sampled 09/06/89 @ 1446
Submitted 09/07/89

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	<1.0	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	<0.50	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	<0.50
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	<1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	<0.50	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	<1.0	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

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LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14214
DATE: 09/20/89 dya

WATER ANALYSIS

Livingston/BN
140101-103
Sampled 09/06/89 @ 1545
Submitted 09/07/89

Volatile Organic Constituent	µg/l	Volatile Organic Constituent	µg/l
Dichlorodifluoromethane	<1.0	1,1,1,2-Tetrachloroethane	<1.0
Chloromethane	<1.0	Ethylbenzene	<1.0
Vinyl chloride	<0.50	p-Xylene	<1.0
Bromomethane	<1.0	m-Xylene	<1.0
Chloroethane	<1.0	o-Xylene	<1.0
Trichlorofluoromethane	<1.0	Styrene	<1.0
1,1-Dichloroethene	<0.50	Bromoform	<1.0
Methylene Chloride	<1.0	Isopropylbenzene	<1.0
trans-1,2-Dichloroethene	<1.0	1,1,2,2-Tetrachloroethane	<1.0
1,1-Dichloroethane	<1.0	Bromobenzene	<1.0
2,2-Dichloropropane	<1.0	1,2,3-Trichloropropane	<1.0
cis-1,2-Dichloroethene	5.5	n-Propylbenzene	<1.0
Chloroform	<1.0	2-Chlorotoluene	<1.0
Bromochloromethane	<1.0	1,3,5-Trimethylbenzene	<1.0
1,1,1-Trichloroethane	<0.50	4-Chlorotoluene	<1.0
Carbon Tetrachloride	<0.50	tert-Butylbenzene	<1.0
1,1-Dichloropropene	<1.0	1,2,4-Trimethylbenzene	<1.0
Benzene	<0.50	sec-Butylbenzene	<1.0
1,2-Dichloroethane	<0.50	p-Isopropyltoluene	<1.0
Trichloroethene	2.1	1,3-Dichlorobenzene	<1.0
1,2-Dichloropropane	<1.0	1,4-Dichlorobenzene	<0.50
Bromodichloromethane	<1.0	n-Butylbenzene	<1.0
Dibromomethane	<1.0	1,2-Dichlorobenzene	<1.0
Toluene	<1.0	1,2-Dibromo-3-Chloropropane	<1.0
1,1,2-Trichloroethane	<1.0	1,2,4-Trichlorobenzene	<1.0
Tetrachloroethene	46	Hexachlorobutadiene	<1.0
1,3-Dichloropropane	<1.0	Naphthalene	<1.0
Dibromochloromethane	<1.0	1,2,3-Trichlorobenzene	<1.0
1,2-Dibromoethane	<1.0	cis-1,3-Dichloropropene	<1.0
Chlorobenzene	<1.0	trans-1,3-Dichloropropene	<1.0

REMARKS: Sample was properly preserved and in specified container. Sample was analyzed in accordance with EPA method 524.2

cc: Envirocon, Livingston.

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LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-13532 -33
DATE: 09/22/89 dya

EPA WATER SUPPLY QUALITY CONTROL SAMPLE

Volatile Organic Contaminants

This EPA Quality Control sample was analyzed with your lab no. 89-13532 -33 with the following results:

Parameter	True Value, µg/l	P (%)	Range for P (%)
Methylene Chloride	5.0	114	60 - 140
1,1-Dichloroethane	4.9	104	60 - 140
1,2-Dichloroethane	5.0	108	60 - 140
Bromodichloroethane	5.1	96	60 - 140
1,3-Dichloropropane	5.0	108	60 - 140
1,2,3-Trichloropropane	5.1	78	60 - 140
Chlorobenzene	5.0	100	60 - 140
Bromobenzene	5.0	82	60 - 140
1,2-Dichlorobenzene	5.2	81	60 - 140

P = Percent recovery measured.

cc: Envirocon, Livingston.

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LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14045 -67
DATE: 09/18/89 dya

EPA WATER SUPPLY QUALITY CONTROL SAMPLE

Volatile Organic Contaminants

This EPA Quality Control sample was analyzed with your lab no. 89-14045 -67 with the following results:

Parameter	True Value, µg/l	P (%)	Range for P (%)
Bromochloromethane	5.0	92	60 - 140
Chloroform	5.0	112	60 - 140
Carbon Tetrachloride	5.1	98	60 - 140
Trichloroethene	5.0	94	60 - 140
1,2-Dibromoethane	5.0	116	60 - 140
1,1,1,2-Tetrachloroethane	4.9	96	60 - 140
Tetrachloroethene	5.0	92	60 - 140
1,3-Dichlorobenzene	5.0	104	60 - 140
1,2-Dibromo-3-Chloropropane	5.0	123	60 - 140

P = Percent recovery measured.

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LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14062 spi
DATE: 09/18/89 dya

QUALITY ASSURANCE - SPIKED ANALYSIS

Lab No. 89-14062 was spiked with each of the following constituents with these results:

Constituent	Spike Amount, µg/l	P (%)	Range for P (%)
Methylene Chloride	5.0	106	60 - 140
1,1-Dichloroethane	4.9	109	60 - 140
1,2-Dichloroethane	5.0	117	60 - 140
Bromodichloromethane	5.1	114	60 - 140
1,3-Dichloropropane	5.0	115	60 - 140
Chlorobenzene	5.0	120	60 - 140
Bromobenzene	5.0	100	60 - 140
1,2,3-Trichloropropane	5.1	80	60 - 140
1,2-Dichlorobenzene	5.2	86	60 - 140

P = Percent recovery measured.

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LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14201 -14
DATE: 09/20/89 dya

EPA WATER SUPPLY QUALITY CONTROL SAMPLE

Volatile Organic Contaminants

This EPA Quality Control sample was analyzed with your lab no. 89-14201 -14 with the following results:

Parameter	True Value, µg/l	P (%)	Range for P (%)
Methylene Chloride	5.0	97	60 - 140
1,1-Dichloroethane	4.9	102	60 - 140
1,2-Dichloroethane	5.0	106	60 - 140
Bromodichloroethane	5.1	113	60 - 140
1,3-Dichloropropane	5.0	111	60 - 140
1,2,3-Trichloropropane	5.1	84	60 - 140
Chlorobenzene	5.0	117	60 - 140
Bromobenzene	5.0	97	60 - 140
1,2-Dichlorobenzene	5.2	82	60 - 140

P = Percent recovery measured.

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LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14047 spi
DATE: 09/18/89 dya

QUALITY ASSURANCE - SPIKED ANALYSIS

Lab No. 89-14047 was spiked with each of the following constituents with these results:

Constituent	Spike Amount, µg/l	P (%)	Range for P (%)
Methylene Chloride	5.0	100	60 - 140
1,1-Dichloroethane	4.9	96	60 - 140
1,2-Dichloroethane	5.0	116	60 - 140
Bromodichloromethane	5.1	96	60 - 140
1,3-Dichloropropane	5.0	111	60 - 140
Chlorobenzene	5.0	121	60 - 140
Bromobenzene	5.0	98	60 - 140
1,2,3-Trichloropropane	5.1	86	60 - 140
1,2-Dichlorobenzene	5.2	85	60 - 140

P = Percent recovery measured.

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LABORATORY REPORT

TO: Envirocon
ADDRESS: P.O. Box 8243
Missoula, MT 59807

LAB NO.: 89-14211 spi
DATE: 09/20/89 dya

QUALITY ASSURANCE - SPIKED ANALYSIS

Lab No. 89-14211 was spiked with each of the following constituents with these results:

Constituent	Spike Amount, µg/l	P (%)	Range for P (%)
Bromochloromethane	5.0	102	60 - 140
Chloroform	5.0	103	60 - 140
Carbon Tetrachloride	5.1	115	60 - 140
Trichloroethene	5.0	112	60 - 140
1,2-Dibromoethane	5.0	120	60 - 140
1,1,1,2-Tetrachloroethane	4.9	109	60 - 140
1,2-Dibromo-3-Chloropropane	5.0	94	60 - 140
1,3-Dichlorobenzene	5.0	98	60 - 140
Tetrachloroethene	5.0	102	60 - 140

P = Percent recovery measured.